

1 **Claims**

- 2 1. A selective one-way wrench comprising:
- 3 a handle;
- 4 an annular head from which the handle projects, the annular head
- 5 defines a first space and a second space communicated with the first
- 6 space;
- 7 a gear rotationally put in the first space, the gear including a toothed
- 8 external face;
- 9 a direction controller put in the second space, the direction controller
- 10 including two pawls and a spring installed between the pawls each
- 11 including a rod formed thereon and a toothed face;
- 12 a driver put rotationally in the second space, the driver including two
- 13 fingers selective one of which contacts the rod of selective one of the
- 14 pawls so as to bring the toothed face of the selected pawl into
- 15 engagement with the toothed external face of the gear; and
- 16 a direction switch installed rotationally on the annular head and
- 17 operably connected with the driver.
- 18 2. The selective one-way wrench according to claim 1 wherein the
- 19 direction switch includes a lever that is operable for the rotation
- 20 thereof.
- 21 3. The selective one-way wrench according to claim 1 including a
- 22 countersink hole communicated with the second space, and the
- 23 direction switch is inserted into the second space through the
- 24 countersink hole.
- 25 4. The selective one-way wrench according to claim 3 wherein the
- 26 direction switch includes a disc and a shaft extending from the disc,

- 1 and the driver is attached to the shaft.
- 2 5. The selective one-way wrench according to claim 4 wherein the
3 direction switch further includes a ridge extending from the shaft,
4 the driver defines a recess for receiving the ridge.
- 5 6. The selective one-way wrench according to claim 1 wherein each of
6 the pawls defines a recess for receiving an end of the spring.
- 7 7. The selective one-way wrench according to claim 3 including a
8 C-ring, wherein the direction switch defines an annular groove in an
9 external side for receiving an internal edge of the C-ring, and the
10 annular head defines an annular groove in the wall of the
11 countersink hole for receiving an external edge of the C-ring.
- 12 8. The selective one-way wrench according to claim 1 wherein the
13 gear is an annular gear.
- 14 9. The selective one-way wrench according to claim 1 wherein the
15 gear includes an insert for insertion into a socket.
- 16 10. The selective one-way wrench according to claim 9 including a
17 detent attached to the insert for contact with the socket.
- 18 11. The selective one-way wrench according to claim 10 including a
19 control device for controlling the movement of the detent.
- 20 12. The selective one-way wrench according to claim 11 wherein the
21 control device includes an aperture defined in the insert for trapping
22 the detent, a space defined in the insert and communicated with the
23 aperture and a rod movable in the space for pushing the detent from
24 the aperture.
- 25 13. The selective one-way wrench according to claim 12 wherein the
26 annular head defines an aperture through which the rod is inserted

1 into the space defined in the insert.

2 14. The selective one-way wrench according to claim 13 wherein the
3 rod includes a hole for receiving the detent in the withdrawn
4 position.

5 15. The selective one-way wrench according to claim 14 wherein the
6 control device includes a spring compressed between a portion of
7 the rod and a portion of the gear.

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